

Message Text

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C O N F I D E N T I A L STATE 060106

E.O. 11652: XGDS-4

AGS: PFOR PINT UR SHUM

SUBJECT: BIOGRAPHIC INFORMATION ON DR. YURIY ORLOV

REF: MOSCOW 3049

1. PARA 5 REFTEL STATES SWISS EMBASSY INTERESTED IN YURIY ORLOV'S SCIENTIFIC WORK IN CONNECTION WITH PROPOSAL FOR HIS MEMBERSHIP IN SWISS ACADEMY OF SCIENCES. COPY OF ORLOV BIOGRAPHY, INCLUDING LIST OF SCIENTIFIC PUBLICATIONS, PUBLISHED BY KHRONIKA PRESS, IS BEING POUCHED TO EMBASSY ALONG WITH ENGLISH TRANSLATION. (FYI NATIONAL ACADEMY OF SCIENCES IS ALSO INTERESTED IN ORLOV'S FATE, AND MAY BE PLANNING A DEMARCHE ON HIS BEHALF.)

2. ORLOV WAS BORN IN 1924, AND ATTENDED SCHOOL IN MOSCOW. HE GRADUATED FROM MOSCOW STATE UNIVERSITY, PHYSICO-CONFIDENTIAL

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TECHNICAL FACULTY IN 1952. JOINED THE CPSU IN 1948. HE WORKED AT THE INSTITUTE FOR THEORETICAL AND EXPERIMENTAL PHYSICS HEADED BY ACADEMIC-AN A.I. ALIKHANOV FROM 1953 TO 1956, WHEN HE WAS FIRED FOR EXPRESSING PERSONAL VIEWS ON DE-STALINIZATION. IN 1956, WENT TO ARMENIA TO WORK ON ELECTRON RING ACCELERATOR PROJECT AT THE PHYSICS INSTITUTE IN YEREVAN. DEFENDED HIS DOCTORAL DISSERTATION

IN 1963, AND IN 1968, ELECTED A CORRESPONDING MEMBER OF THE ARMENIAN ACADEMY OF SCIENCES. CHIEF OF LABORATORY OF YEREVAN PHYSICS INSTITUTE, 1968 TO 1972 OR 1973, WHEN FIRED FOR POLITICAL ACTIVITIES. 1972 TO 1974 WORKED AT A PHYSICS INSTITUTE OF THE USSR ACADEMY OF SCIENCES UNDER GENERAL DIRECTION OF L.A. ARTSIMOVICH, SCIENTIFIC SECRETARY. ORLOV'S LAST SCIENTIFIC WORK DATES FROM LATE 1973 - EARLY 1974. PUBLISHED "QUANTUM THEORY OF ELECTRON MOVEMENT IN SYNCHROTRONS" IN 1973.

3. AS FAR AS THE DEPARTMENT IS AWARE, ORLOV ENJOYED REPUTATION AS INNOVATIVE THINKER IN FIELD OF ACCELERATOR DESIGN, AND IN 1960'S PARTICIPATED IN NUMEROUS SCIENTIFIC CONFERENCES SPONSORED BY THE USSR JOINT INSTITUTE FOR NUCLEAR RESEARCH IN DUBNA WHICH WERE ATTENDED BY FOREIGN RESEARCHERS. HE WAS A PIONEER OF NON-LINEAR FOCUSING IN ACCELERATOR TECHNOLOGY, AND IN 1969, PRESENTED A DESIGN FOR A HEAD-ON ELECTRON-POSITRON BEAM INSTALLATION OF A PROTON ANTI-BEAM ACCELERATOR AT THE 7TH INTERNATIONAL CONFERENCE ON ACCELERATORS AT TSAXHKADZOR (NEAR YEREVAN). HIS WORK WAS FAVORABLY MENTIONED IN SEVERAL SOVIET POPULAR JOURNALS INCLUDING "KULTURA I ZHIZN" (1964) BUT THERE IS SOME DISAGREEMENT OVER THE PRACTICAL APPLICABILITY OF HIS DESIGNS: SOME HAVE CALLED THEM "INNOVAHVE" WHILE OTHERS FEEL THEY ARE IMPRACTICAL, OR, AT BEST, QUITE DISTANT PROSPECTS FOR THE DEVELOPMENT OF ACCELERATORS.

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